

NOTES ON HESPERMANNIA (COMPOSITAE)  
HAWAIIAN PLANT STUDIES 80

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Hesperomannia has been monographed by Carlquist (1957), but it is still possible to make contributions to the knowledge of the genus.

*Hesperomannia arbuscula* Hbd., subsp. *oahuensis*  
(Hbd.) Carlq., Pacif. Sci. 11: 213, 1957.

H. arborescens Gray, var. Oahuensis Hbd., Fl.  
Haw. Is. 232, 1888.

H. oahuensis (Hbd.) Degener, Fl. Haw., fam. 344:  
8/24/38.

Hillebrand based his variety upon two collections:  
"Oahu! Waianae range, Puakea (Wawra), Makaleka  
(Lydg.)."

In 1935 the writer noted that the cited Wawra collection, no. 2,222, was in the Berlin herbarium. The Lydgate collection, Makaleha, Oahu, ex herb. Hbd., is in the Bishop Museum. When Degener (1938) raised the var. oahuensis to a species, he cited the type locality as, "Oahu, Berge von Waianae." This was not a quotation from Hillebrand, and evidently Degener had not studied the specimens in the Hillebrand collection in the Berlin Museum. Clearly, the quoted phrase came from Wawra's Beitrge in Flora 31:76, 1873 (p. 39 in the reprint). Even though Degener did not precisely select the Wawra 2,222 specimen as a lectotype, it seems that he has done so effectively by quoting the locality in German, in the exact wording used in Wawra's Beitrge, for the same Wawra collection which was one of the two upon which Hillebrand based his var. oahuensis.

The differences between this plant of Oahu, and the species H. arbuscula of west Maui are in the habit, the length of the phyllaries, and of the pappus. These differences are slight, and appear to be of little significance. There seems no reason to change its taxonomic status as a subspecies, (or as a variety).

*Hesperomannia arbuscula* Hbd., var. Pearsallii var. nov.

Diagnosis Holotypi: Laminis ellipticis (vel ovatis) 14-21 cm longis 8-14 cm latis subintegribus vel minute serrulatis supra mox glabratiss infra pallidis in initio tomentosiss sed mox glabratiss.

Diagnosis of Holotype: Blades elliptic (or ovate), 14-21 cm long, 8-14 cm wide, subentire or minutely serrulate, above early glabrate, below pale and at first tomentose but early glabrate.

Holotypus: Hawaiian Islands, Oahu Island, Waianae Mts., Puu Kaua-Kanehoa Peak, on side ridge below main ridge, above Kunia Camp, 2,950 ft alt., 5/19/60, G. A. Pearsall 500 (BISH).

Specimens Examined: Hawaiian Islands, Oahu Island, all from Waianae Mts., Kaneha Trail, w. of Schofield, Metrosideros-Acacia forest, with Pelea, Viola, Pipturus, 1,600 ft alt., Aug. 26, 1961, S. Carlquist 640 (BISH); Kunia Trail between Puu Kanehoa and Puu Hapapa, steep slope, Acacia koa forest, 1,200 ft alt., July 3, 1965, Carlquist 1,720 (BISH); and July 2, 1966, 1,910 (BISH); Kaluaa Gulch (Lihue), between Puu Kanehoa and Puu Hapapa, 23 July 1967, P. C. Hutchinson, C. S. Daniels & J. Obata 7,370 (BISH); back of Kunia Camp, 100 yds. below ridge between Puu Kaua & Kanehoa, 2,950 ft alt., 3/26/60, Pearsall (BISH); Kanehoa ridge trail, 1,500 ft alt., 26/3/60, B. C. Stone 3,293 (BISH); and 30 April 1960, 3,450 (BISH).

Discussion: The closest relative of the new variety is ssp. oahuensis (Hbd.) Carlq., which has the blades ovate (or elliptic), 9-19 cm long, 7-11 cm wide, below permanently soft tomentose. It occurs in the northern Waianae Mts., only on the slopes of Mt. Kaala.

Discussion: The new epithet is given in memory of Gordon A. Pearsall, of the U. S. Bureau of Entomology and Plant Quarantine, a former student of the writer's.

#### Literature Cited

Carlquist, Sherwin

1957. Systematic Anatomy of *Hesperomannia*.

Pacif. Sci. 11: 207-215, figs. 1-5.